

## Brief description of drawings.

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Fig. 1: Three – phase thermodynamic cycle diagram. Spontaneous aggregation (dotted lines (29)).

Fig. 2: Slot in face and side view. Diverging inner surfaces. Microscopic cross section (side view). Macroscopic length 20mm (30).

Fig. 3: Cone in face and side view.

Fig. 4: Cavity in face and side view.

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Fig. 5: Complete device of the invention (side view and cross section S-S).

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Fig. 6: Small modules (m), panel (13) of parallel slots, cone and cavity panels (14), pile of panels (15).

Fig. 7: Arrangement (18) of modules (m). The arrows indicate the directions of the gas stream (31).

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Fig. 8: Heat exchanger diagram, corresponding flow diagram.

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Fig. 9: Slot panel (arrangement of parallel triangular rods (19), forming slots (s) in between).

Fig. 10: Cone panel (21).

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Fig.11: Possible scheme for cone panel fabrication.

Fig. 12: Cavity panel (23).

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Fig. 13: Forming of active surfaces on cavities.

Fig. 14: Ditto

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